FOR MYSORE STATE

DEVELOPMENT (195 2.) Department.

MS. SERIES.

G.O. No. 3691.

Dated 22--8--1952

[Despatch Abstract]

MINES - MINERALS REFLUX MATERIALS REQUIRED FOR IRON & STEEL INDUSTRY - PAPERS RECORDED

GOVERNMENT OF MADRAS
DEVELOPMENT DEPARTMENT.

Memorandum No.45485 J/51-1, Madras-9, dated 10th May, 1951.

OFFICE MEMORANDUM.

Sub: MINES - Minerals - Reflux materials required for the iron and steel industry - Report - Called for.

As the Director of Industries and Commerce is already aware, the Government are considering the question of establishing an iron and steel industry in this State. A list of reflux materials available for the iron and steel industry in Sandur and Salem area is enclosed. It has been estimated that an annual production of half a million ton of steel is the minimum economic unit. Based on this, the estimated ore in Sandur area will be sufficient for about 200 years and that in Salem area for about 470 years. The Government have imposed a ban on the grant of mining concessions in respect of certain minerals in the list enclosed. With a view to consider the question of lifting the ban imposed on the grant of mining concessions in respect of these minerals, it is considered necessary to have information as to what minerals and what area required to be reserved for the projected iron and steel industry. The Director of Industries and Commerce is, therefore, requested to submit a detailed report in consultation with the Board of Revenue and the Superintending Geologist regarding the minerals and area to be reserved for the proposed iron and steel project. The report in respect of the Sandur and Salem area may be given separately. The matter may be treated as urgent and a reply may be sent before 30-6-51.

J.M. LOBO PRABHU,
Secretary to Government.

To the Director of Industries and Commerce.
Copy to the Superintending Geologist, Madras.
Copy to the Board of Revenue.

(TRUE COPY)

N.S.SATYANARAYANAN,
26--11--1953.

SUPERINTENDENT.

Examined by: A. Venkatachalam 2.12.53

Read by A.C. Sitalakshmi 2.12.53

× × ×

INDUST AND COMMERCE DEPARTMENT
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No.3833-A2/51, dated 7th November, 1951.

From
Sri M.T. Raju, Bar-at-Law, I.C.S.,
Director of Industries and
Commerce, MADRAS-6.

To
The Secy. to Government
Development Department
Fort St. George,
MADRAS.

Sir,

Sub: Mines - Minerals - Reflux materials required for the iron and steel industry - Report - Submitted.

Ref: Government Memo No.45485-J/51-1, Development, dated 10-5-1951.

As desired in the Government Memo cited above, the Board of Revenue and the Superintending Ex Geologist, Geological Survey of India, Southern Circle, Madras, were consulted in regard to reservation of minerals in Sandur and Salem areas for the establishment of iron and steel industry. The Board having obtained the views of the Collectors of Kurnool, Krishna, Nellore, Bellary Cuddapah and Salem in the matter forwarded them expressing agreement with them. A copy of the Board's letter No.L 5039/51-6, dated 4-7-1951 received in this connection enclosed.

2. The Superintending Geologist had expressed his view in the matter in his letter No.1036/33 dated 9-6-1951 a copy of which is herewith enclosed.

3. The recommendations made by the Collectors and the Superintending Geologist for each specific reflux material for the iron and steel industry are, herewith, presented in a tabulated form, in respect of the Sandur and Salem areas. As there was a difference of opinion between the district collectors and the Superintending Geologist in the matter of reservation of the minerals and areas for the proposed iron and steel project, the reports received from the Collectors were forwarded to the Superintending Geologist with a request to state whether all the minerals and areas suggested by the Collectors have to be reserved for the proposed project. The Superintending Geologist has

P.T.O.

expressed the view that before deciding the question regarding the reservation of mineral resources for the proposed iron and steel industry, it would be necessary to visit the places of mineral occurrences, study the conditions and test samples, conduct the survey and has enquired whether the Government of Madras would provide the necessary personnel and material equipment for the survey and prospecting operations. A copy of the letter No.9426 M , dated 5-10-1951 received in this connection from the Superintending Geologist is enclosed for information.

4. I agree with the views expressed by the Superintending Geologist generally in his report and suggest that a further investigation may be caused to be made on the utility of the Chromite and Magnesite deposits occurring in Sandur and Salem areas respectively for the proposed iron and steel industry.

(SD.) SRIDAR A. KHAN,

FOR Director of Industries & Commerce.

(TRUE COPY)

N.S.SATYANARAYANAN,
26--11--1953.

SUPERINTENDENT.

SANDUR AREA.

RECOMMENDATIONS MADE BY DISTRICT COLLECTORS.	RECOMMENDATIONS MADE BY THE SUPERINTENDING GEOLOGIST.
LIMESTONE:	LIMESTONE:
In their memo No.99355-P & D.III/48-15, dated 10-10-48, Govt. banned the ~~da~~ grant of the ~~m~~ining concession in the limestone bearing areas in Dhone taluk of Kurnool District. The ban need not be lifted.	The deposits of limestone mentioned in the list enclosed to the Government memo are either too small or too silicious for the purpose. As such there is <u>no necessity</u> of imposing a ban on the grant of mining lease on the limestones of the localities cited.
Limestone occuring in South South east of Betamcherla is useful for iron and steel industry and it may be reserved.	
Fboggy limestones occurring in Betamcherla area and nearx Kurnool town may not be useful for iron and steel industry.	
CHROMITE:	CHROMITE
A chemical analysis of the ore occurring in Kondapalli hills should be carried out before deciding to reserve the area.	As India's reserves of chromite are limited, it should be utilised for local industrial needs only. Mining lease <u>for short periods</u> could be granted so that deposits could be ~~granted~~ ~~su~~ ~~tx~~ opened up and their extent and richness known
SILICA:	SILICA:
The following areas in the Nellore District may be reserved:- i) <u>Talupur-Rapur taluk</u>: (1) Sri Ramanujaneya Rice Mines, and (2) Baladurga Mica Mines. ii) <u>Utukur-Rapur taluk:</u> (1) Lakshmi Vilas Mica mine, (2) Dasari Mica Mine and (3) Anjaneya Mica Mine. iii) <u>Patragunta Village, Gudur taluk</u>: (1) Raja Rajeswari Mine, (2) K.V.D. Mine. The above mines have been leased out.	As there is no real dearth of silica in the area concerned, there is <u>no</u> need to ban working of this mineral.
MANGANESE DIOXIDE:	MANGANESE DIOXIDE:
The following areas in the Bellary District may be reserved:- i) Kamatheruvu area 13,500 acres: ii) Komaraswamy temple area 1000 acres: iii) Ramandrug Range 3.500 acres. These areas are now leased to The General Sandur Mining Coy., Ltd., Deogiri and they have applied for further ~~x~~ renewal.	The entire reserves amounting to about half a million tons in localities 23, 24 and 28 shown in Table III in pages 15-16 of G.O.No.2441, dated 7-5-1949 may be <u>conserved</u>.

p.t.o.

RECOMMENDATIONS MADE BY DISTRICT COLLECTORS:-	RECOMMENDATIONS MADE BY THE SUPERINTENDING GEOLOGIST:
CLAY:	CLAY:
No Reservation is necessary.	The clays occurring near Naresapuram in Kandukur taluk or Nellore District may be observed.

(TRUE COPY)

COPY of letter No.1036/33, dated 9th June, 51 from Superintending Engineer, Geological Survey of India, Southern Circle, Madras-4, to the Director of Industries and Commerce, Madras-6.

Sub: MINES - Minerals - Flux etc. required for the iron and steel industry.

With reference to the Government of Madras, Development memorandum No.45485-J/51-1, dated the 10th May, 1951, and your letter No.3833-A2/51, dated the 21st May, 1951, I am enclosing herewith my comments.

(TRUE COPY)

Re: Flux etc. for iron and steel industry, Madras.

Ref: Govt. of Madras, Development Department Memo. No.45485-J/51-1, dated 10-5-1951.

In this country the iron and steel industries generally use limestones with nor more than 6 percent combined silica and alumina for use as flux. Very small quantity of dolomite is being used as flux. Here again high quality material with 5--6 per cent insolubles is preferred.

The amount of limestone required for iron-smelting is variable according to the iron-content of the ore. In general it is 900 lbs. per ton of pig iron.

From the information available, it appears that there is in Madras no single source with the adequate reserves of suitable fluxing limestone or dolomite required for iron-smelting on the scale proposed.area

contd.....

SANDUR AREA:

LIMESTONE:

The deposits of limestones mentioned in the enclosures to the above quoted memo are either too small or too siliceous for the purpose. As such there is no necessity of imposing a ban on the grant of mining lease on the limestones of the localities cited.

CHROMITE:

In view of the general impersistency of the deposits, no realiable estimate of reserves could be made. Therefore, mining lease for short periods could be granted so that the deposits could be opened up and their extent and richness known. As India's reserves of chromite are limited, it is suggested that it should be utilised for local industrial needs only.

SILICA:

As there is no real dearth of silica in the area concerned there is no need to ban working of this mineral.

MANGANESE-ORE:

As the requirement of manganese-ore in the iron and steel industry is small, about 30 lbs. of high grade manganese ore per ton of steel, there is not much necessity for conserving the low grade ores, but a certain amount of high grade ore, low in phosphorus, may be conserved for emergency. The entire reserves amounting to about half a million ton, in localities 23, 24 and 28 shown in Table III in pp.15-16 of G.O.No.2441, dated May 7. 1949 may be conserved. The present tendency is to use lower grade ore for iron and steel manufacture. There will be no difficulty in obtaining low grade ores at any time so long as manganese remains vital to iron and steel making.

C L A Y:

The clays occurring near Narasapuram in Kandukur taluk of Nellore district may be conserved for refractory purposes

P.T.O.

purposes only after conducting tests on bulk samples.

The shrinkage of these clays appears to be large and the refractoriness is not known beyond 1150° C. The clays of Hastavaram, Rajampeta taluk, Cuddapah district are not refractory.

(TRUE COPY

BELLARY

COPY OF COLLECTOR'S LETTER No.L.Dis.9072/51, Dated 22-6-51.

Sub: Mines - Minerals - Reflux materials required for the Iron and Steel Industry - Report - Submitted.

Ref: Ref.L.5039/51-1, dated 30-5-51 and D.O.L.5039/51-2, dated 19-4-51 from the Board of Revenue, Madras.

This office Rc.No.9072/51, dated 15-6-1951.

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I submit that the following areas contain Manganese Dioxide in Sandur taluk:

Kammatheruvu area:	13,500 acres.
Komaraswamy Temple area:	1,000 ,,
Ramandrug Range:	3,500 ,,
TOTAL	18,000 ,,

The above areas may be reserved for the projected Iron and Steel Industry to be established by the State. In this connection I invite the attention of the Board to his Office Ref.C.No.6379/51-A1, dated 13-6-51 (copy enclosed). The areas now proposed for reservation are held on lease by the General Sandur Mining Co., Ltd., Deogiri granted by the erstwhile Sandur State and the period of lease expires by 31-12-1953.

COPY OF THIS OFFICE (COLLECTOR'S) RC. No.6379/51-A1, dated 13-6-51 addressed to the Secretary to Govt., Devt. Dept., Madras.

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Sub: Mines - Mining - Lease - Manganese - Deogiri - The General Sandur Mining Co., Ltd., - Renewal of.

Ref: Govt. Memo. No.131149/J/50-8, Devt. Dept. dated 6-6-51. B P, Rt.No.3463, dated 23-5-51 from the Board of Revenue, Madras.

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I enclose the two lease deeds (state lease Nos.1 and 2/1929) executed by Messrs. The General Sandur Mining Co., Ltd., Deogiri, Sandur.

With reference to B.P.Rt.3463, dated 23-5-51 I submit that the General Sandur Mining Company have already applied for the renewal of the lease held by them for a period of 27 years and

Copy of letter No.9426-M, dated 5th October 1951 from Superintending Geologist, Geological Survey of India, Madras to the Director of Industries and Commerce, Madras.6.

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Sub: Mines - Minerals - Reflux Materials required for the iron and steel industry - further remarks - requested.

Ref: Govt. Memo.No.45485-J/51-1, dated 10.5.51 and my letter No.1036/33, dated 9.6.51.

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Please refer to your No.3833_A2/51, dated 11.9.51.

Before deciding on the reservation of mineral resources for the proposed iron and steel industry, it would first be necessary to visit the deposits, to study their state of development and for sampling etc. For this, mining plans etc. should be made available to us. The Buckingham and Carnatic Company, Ltd., Madras and Sri V.V. Punniah of Guntur may be requested to furnish their mining analysis of ores from their concessions in the Kondapalli hills, Krishna district; Messrs Parry & Co. the plans, etc. for their Hastavaram clay concessions in Cuddapah district; and the General Sandur Mikk Mining Co., Ltd., Deogiri, Sandur, Bellary district similar data for their mines.

For other areas, plans, etc. have to be made for estimation of reserves before areas can be selected for reservation and I, therefore, requested that two surveyors with chainmen, etc. may be made available to us when we undertake examination of the deposits.

Trenching boring, etc. may be necessary; I would, therefore, request you to inform me whether the Government of Madras will provide the necessary personnel and material equipment for such prospecting operations.

In my comments enclosed with my letter No.1036/33, dated the 9th June 1951 I have made suggestions for the reservation of mineral deposits for the proposed iron and steel industry. I have now included the clay of Hastavaram in Cuddapah because the clay seems to be plastic.

Yours faithfully,
(A.K. Dey)
Superintending Geologist,
Geological Survey of India.

/true copy/

Ref.No.L.5039/51-6. Office of the Board of Revenue, Madras,

dated the 4th July, 1951.

From
Sree V.N. Kudva, I.C.S., Commissioner of Commercial Taxes.

Sub: Mines - Minerals - Reflux materials - Required for the iron and steel industry - Remarks.

Ref: Govt. Memo. No.48485-J/51-1, Development dated 10-5-51.
From the Director of Industries and Commerce, No.3833-A2/51, dated 21-5-51.
Board's Ref.L.5039/51-1, dated 30-5-51.
From the Collector of Krishna, L.Dis.12742/51, d/13-6-51.

From the Collector of Nellore, L.Dis.12523/51, d/14-6-51.

From the Collector of Cuddapah, L.Dis.No.6850/51, d/18-6-51.

From the Collector of Kurnool, D.Dis.8322/51, d/18-6-51.

From the Collector of Salem, D.Dis.13015/51, d/19-6-51.

From the Collector of Bellary, L.Dis.9072/51, d/22-6-51.

From the Collector of Salem L.Dis.S1.315/51, dated 28-6-51.

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Reference:

The Board sends herewith copies of letters of the Collectors of Nellore, Krishna, Cuddapah, Kurnool, Salem, and Bellary and agrees with the proposal contained therein.

2. A further report has been called for from the Collector of Krishna in regard to reservation of Chromite bearing areas in Kondapalli hills, from the Collector, Nellore in respect of Kavali and Kandukur taluk wherein certain ceramic materials are obtainable, and from the Collector of Kurnool in regard to the limestone areas near Kurnool town and Betamcherla. On receipt of these reports, the Board will send a further report to the Director of Industries and Commerce.

(SD.) V.AKILANDESWARAN,

Asst. Secretary.

To
The Director of Industries and Commerce, Cathedral, Madras-6.
with Collector's letters.

(TRUE COPY)

SUPERINTENDENT.

Copy of Salem Collector's letter No.L.Sl.315/51, d/ 28-6-51.

Sub: Mines - Minerals - Reflux materials required for the Iron and Steel Industry - Report - Submitted.

Ref: Board's Ref. L.5039/51-1, dated 30-5-51.

It is reported that there is no crystalline limestone deposit in Namakkal taluk.

(TRUE COPY)

COPY OF BELLARY COLLECTOR'S LETTER No. L. Dis.9072/51, dated 22-6-51.

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Sub: As above.

Ref : Ref.L.5039/51-1, dated 30-5-51 and D.O.No. L.5039/51-2, dated 19-4-51 from the Board of Revenue, Madras.

This office Rc.No.9072/51, dated 15-6-51.

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I submit that the following areas contain Manganese Dioxide in Sandur taluk:

Kammatheruvu area:	13,500 acres,
Komaraswamy Temple areas:	1,000 ,,
Ramandrug Range:	3,500 ,,
TOTAL:	18,000 ,,

The above areas may be reserved for the projected Iron and Steel Industry to be established by the State. In this connection I invite the attention of the Board ~~of~~ to his Office Ref.C.No. 6379/51-A1, dated 13-6-51 (copy enclosed). The areas now proposed, for reservation are held on lease by the General Sandur Mining Co., Ltd., Deogiri granted by the erstwhile Sandur State and the period of lease expires by 31-12-1953.

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COPY OF THIS OFFICE (COLLECTOR'S) RC. No.6379/51-A1, dated 13-6-51 addressed to the Secretary to Government , Development Department, Madras.

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Sub: Mines - Mining - Lease - Manganese - Deogiri - The General Sandur Mining Co., Ltd. - Renewal of -

Ref: Govt. Memo. No.131149-J/50-8, Development Dept. d/6-6-51. B.P.Rt.No.3463, d/ 23-5-51 from the Board of Revenue, Madras.

I enclose the two lease deeds (state lease Nos.1 and 2/1929)

p.t.o.

executed by Messrs.The ~~Sandur~~ General Sandur Mining Co., Ltd., Deogiri, Sandur.

With reference to B.P. Rt. 3463, dated 23-5-51, I submit that the General Sandur Mining Company have already applied for the renewal of the lease held by them for a period of 27 years and the matter is under correspondence. Necessary particulars regarding the receipt of the application were already furnished to the Government in this Office Rc.No.6379/51-A1, dated 4-5-51.

(Sd.) R. ANNAIAH NAIDU,

For Collector.

(TRUE COPY)

N.S.SATYANARAYANAN

27—11—1953.

SUPERINTENDENT.

GOVERNMENT OF MADRAS
Development Department.

Memorandum No. 45485 J/51-4 dated 19.12.1951.

Sub: MINES - Minerals - Reflux materials required for Iron and Steel Industry - Investigation of.

Ref: From the Board of Revenue, L.5309/51-6, dated 4.7.51 addressed to the Director of Industries and Commerce.
From the Directorof Industries and Commerce, letter No.3833/A2/51 dated 7.11.52.

A copy of the letter cited from the Director of Industries and Commerce together with the Statement and a copy of the No.9426 M/51 dated 5.10.51 of the Superintending Geologist referred to therein are forwarded to the Board of Revenue. The Superintending Geologist has requested that the Buckingham and Carnatic Company, and Sri Punniah may be asked to furnish him for study, the working plan of their Chromite mines in Krishna with details as to the production of minerals and an analysis of the minerals mines and that M/s. Parry & Company and the Sandur Mining Company, to furnish similar particulars in respect of the Hastavaram clay concession and the Sandur Manganese concession held by them respectively. The Board of Revenue is requested to arrange to get the required particulars from the lessees concerned and furnish them to the Superintending Geologist.

2. The Superintending Geologist requires also the assist-ance of two Surveyors and Chainmen in the work of investigation. The Board is requested to considerthe feasiblity deputing two Surveyors and 4 chainmen from the staff now in Cuddapah and Kurnool Districts and to report to the Government. It is also requested to state whether the staff so deputed can be taken to Salem District also in connection with the investigation or in the absence of any other staff that could be availed of in Salem and the neighbouring districts, a separate staff need be appointed for the purpose.

J.M. LOBO PRABHU,
Secretary to Government.

To the Board of Revenue (with Enclosure)
To the Director of Industries and Commerce.
To the Superintending Geologist.

/true copy/

GOVERNMENT OF MADRAS

DEVELOPMENT DEPARTMENT.

Memorandum No.45485 J/51-5, Madras-9, dated 19-12-51.

OFFICE MEMORANDUM.

Sub: MINES - Menerals - Replux materials required for Iron and Steel Industry - Investigation of.

Ref: From the Director of Industries and Commerce, Letter No.3833/A2/51, dated 7-11-51.

The Government generally approve the proposals submitted by the Director of Industries and Commerce in his letter cited.

2. The Superintending Geologist requires among others, the necessary trenching and boring equipment for conducting the investigation. It is presumed that the Director of Industries and Commerce will arrange for the required equipment with the personal for working them.

3. As soon as the particulars regarding the working plans etc. are received from the Board of Revenue a detailed programme for carrying out the investigations in the three different districts, may be in consultation with the Superintending Geologist/and worked out submitted to the Government for approval.

J. M. LOBO PRABHU,

Secretary to Government

To

The Director of Industries and Commerce.

The Board of Revenue.

The Superintending Geologist.

(TRUE COPY)

GOVERNMENT OF MADRAS

DEVELOPMENT DEPARTMENT.

Letter No.45483 J/51-6, Dated 19---12---1951.

[redacted]

From,

Sri J.M. Lobo Prabhu, I.C.S.,
Secretary to Government.

To

The Superintending Geologist,
Geological Survey Of India,
Southern Circle, MADRAS.

Sir,

Sub: MINES and Minerals - Reflux Minerals for Iron Industry - Investigation of.

Ref: Your letter No.9486-M, dated 5-X-51 addressed to the Director of Industries and Commerce.

I am directed to say that the suggestions contained in your letter have the acceptance of this Government and to request that, on receipt from the Board of Revenue of particulars regarding working plans etc of the mines under references, a detailed programme for carrying out the investigation may be suggested to this Government through the Director of Industries and Commerce.

Yours faithfully.

(SD.) J.M. LOBO PRABHU.

(TRUE COPY)

To The Director of Industries & Commerce
The Board of Revenue

REVENUE DEPARTMENT

Subject:

MINES—Minerals—Reflux materials required for Iron and Steel Industry -- Investigation of.

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Ref.No.L.12824/51-4.

Madras. dated the 21st January, 1952.

From

Sri N.C. Thomas, B.A., Joint Secretary, Board of Revenue, Madras.

Sri V.N. Kudva, I.C.S., Commissioner of Commercial Taxes.

Read: Govt. Memo.No.4582485-J/51-4, Development, dated 19-12-51

Reference:-

With reference to para 1 of the Government Memorandum cited, the Board submits that it has already addressed the Collectors of Krishna, Cuddapah, and Bellary to furnish the particulars required by the Superintending Geologist, Madras, for forwarding them to him, as directed in the Government Memorandum read above. The reports from the Collectors are awaited.

2. With reference to para 2 of the Government Memorandum cited, the Board submits in consultation with the Senior Deputy Director of Survey and Land Records, that two Surveyors and chainmen from the mobile staff working in Chittoor Range will be deputed to work in Cuddapah, Kurnool and Bellary districts from the mobile staff working in Kakinada Range to work in Krishna and Nellore Districts and from the mobile staff working in Coimbatore range to work in Salem District under the Superintending Geologist during the time of his investigation in these districts. The Board requests the favour of the orders of the Government for issuing necessary instructions to the Range Officers concerned.

(SD.) XXXXXXXX,
for Joint Secretary.

To

The Secretary to Government, Development Department, Madras.

(TRUE COPY)

GOVERNMENT OF MADRAS
DEVELOPMENT DEPARTMENT.

Memorandum No.45488 J/51-8, Madras-9, Dated 14-12-52.

Sub: MINES - Minerals - Reflux materials required for Iron and Steel Industry - Investigation of.

Ref: From the Board of Revenue, No.L.12824/51-4,

dated 21--1--1952.

The proposal of the Board of Revenue contained in para 2 of its reference cited is accepted. The Board id requested to issue necessary instructions to the Range Officers concerned accordingly.

J. M. LOBO PRABHU,

Secretary to Government.

To

The Board of Revenue.

The Superintending Geologist,

The Geological Survey of India,

Southern Circile, Madras.

The D.I. & C (with cnct)

(TRUE COPY)

and the matter is under correspondence. Necessary particulars regarding the receipt of the application were already furnished to the Government in this Office Rc.No.c379/51-A1, dated 4-5-1951.

(SD.) R. ANNAIAH NAIDU,

for Collector.

(TRUE COPY)

REVENUE DEPARTMENT

Subject:

MINES - Minerals - Reflux materials required for iron and steel industry - Investigation of.

Station: MADRAS Ref.L.12824/51-6. Dated: 22-3-52.

Sri N.C. Thomas, B.A., Joint Secretary, Board of Revenue.

Sri V.N. Kudva, I.C.S., Commissioner of Commercial Taxes.

Read: Government Memo.No.45485 J/51-4, Development, d/19-12-51
Board's Ref.L.12824/51-4, dated 21-1-1952.
Govt. Memo. No.4585 J/51 -8, Development, d/ 14-2-52.

REFERENCE:

The Range Officers of Chittoor, Kakinada and Coimbatore are informed that the Government are now considering the question of establishing an iron and steel industry in this State. Before deciding on the reservation of mineral resources for the proposed iron and steel industry, it has been suggested to Government by the Superintending Geologist, Madras, that it would first be necessary to visit the deposits to study their state of development, and for sampling etc., and hence necessary plans etc. have to be made for estimation of reserves before areas can be selected for reservation. The Superintending Geologist therefore requires the assistance of two surveyors with chainmen during the course of his investigation. The Range Officer, Chittoor is therefore requested to keep in readiness two surveyors and chainmen from the mobile staff working in his range to work under the

under the Superintending Geologist in Cuddapah, Kurnool and Bellary districts, the Range Officer. Kakinada. to keep in readiness such staff for work in Krishna and Nellore districts and Range Officer, Coimbatore to keep in readiness such staff for work under the Superintending Geologist, as and when he takes up the investigation work in the districts. The Superintending Geologist will also contact the concerned Range Officer and intimate the exact date from which he may require the staff.

2. The Range Officers are requested to acknowledge the receipt of this reference.

(SD.) XXXXXX,
for Joint Secretary]

To the Range Officers, Survey and Land Records, Chittoor, Kakinada and Coimbatore. (IN full).
To The Superintending Geologist, Geological Survey of India, Southern Circle, Madras (Para 1.)
to Government,
Copy to the Secretary/Development Department (in full).
'N' Section (in full).

Devt. J.

To. A.S.

Submitted for perusal. The reply of the D.I & C. to para 1 of the memo. on p.21 above may be awaited till 27-3-52.

(SDx) xxxxx,
10-3-52.

Copy of Govt. Memo.No.245485 J/51-9, Development Department, dated 28-3-1952.

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Sub: Mines - Minerals - Reflux materials required for Iron and Steel Industry - Investigation of.
Ref: From the Board of Revenue No:L.12824/51-5, dated 18-2-1952.

The attention of the Director of Industries and Commerce is invited to the reference cited . He is requested to state whether replies from the Collectors of Krishna, Cuddapah and Bellary have been received and if so when his report may be expected.

(SD) S. ARUL DOSS,
27-3-1952. Deputy Secretary.

To the Director of Industries & Commerce.

(TRUE COPY)

COPY of the letter L.Dis.No.54/52/A.1 dated 15-2-1952 of the Collector, Bellary addressed to the Secretary, Board of Revenue,

M A D R A S.

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Sub: MINES - Minerals - Reflux materials required for Iron and Steel Industry - Investigation of - Report - Submitted.

Ref: Board's D.O.No.L/12824/51-3, dated 4-1-1952.

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The particulars called for in Board's reference cited above are furnished below:--

1. The mining plan to a scale of 1" is equal to 1 mine is enclosed.
2. The production of Manganese since the commencement of the operations in 1907 as reported by the lessee (i.e.G.S.M. Co., Sandur) is 2,250,000 tons.
3. The approximate balance of manganese left there as estimated by the Geological survey party which recently visited is 6,00,000 to 8,00,000 tons.
4. The average analysis of the ore extracted is between 39% and 40% Manganese (metal).

(Sd.) XXXXX,
for Collector.

(TRUE COPY)

I.S.SATYANARAYANAN, SUPERINTENDENT.

27--11--1953.

No.45485 J/51-10.

Development Department,
Fort St. George, Madras-9
Dated the 26th April, 1952.

OFFICE MEMORANDUM.

Sub: MINES - Minerals - Reflux materials required for Iron and Steel Industry - Investigation of.

Ref: Government Memorandum No.45485 J/51-4, Development, dated 19-12-1951.
From the Director of Industries and Commerce, No. J/L.12824/51, dated 8--4--1952.

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The attention of the Director of Industries and Commerce, is invited to the para 1 of the Government Memorandum cited. He is requested to state whether the particulars required by the Superintending Geologist have been furnished to him. He is also informed that the plans mentioned in the reference cited have not been received here; and it is presumed that they were sent direct to the Superintending Geologist.

S. ARUL DOSS,
Deputy Secretary to Government.

To
The Director of Industries and Commerce.

(TRUE COPY)

OFFICE OF THE DIRECTOR OF INDUSTRIES AND COMMERCE, MADRAS

From	To
The Director of Industries and Commerce,	The Secretary to Government,
Mackeys Gardens,	Development, Department,
[illegible]nt Cathedral P.O., Madras 6.	Fort St. George, Madras.

Ref.No.J/12824/51-11, dated 19-8-1952.

Sir,

Sub: Mines - Minerals - Reflux materials required for Iron and Steel Industry - Investigation of.
Ref: Government Development Memo No.45[illegible]-J/52-10, dated 26-4-1952

With reference to the memo cited above, I am to state that the Superintending Geologist has been furnished with the particulars required by him. The plans mentioned in this office Ref.No.J/L-12824/51-1, dated 8-4-1952 are being sent to the Superintending Geologist direct.

(SD.) XXXXXXXXX,
for Director of Industries and Commerce.

(TRUE COPY)

No.45485 J/51-11.

Development Department.
Fort St. George, Madras-9,
Dated the 17th June, 1952.

OFFICE MEMORANDUM.

Sub: MINES - Minerals - Reflux materials required for iron and steel Industry - Investigation of.

Ref: From the Director of Industries and Commerce, No.J/12824/51-11, dated 19--5--1952.

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The Director of Industries and Commerce is requested to obtain the report from the Superintending Geologist suggesting a detailed programme for carrying out investigations and to forward it to Government.

S. ARUL DOSS,

Deputy Secretary to Government.

To

The Director of Industries and Commerce.

(TRUE COPY)

OFFICE OF THE DIRECTOR OF INDUSTRIES AND COMMERCE: MADRAS

From	To
The Director of Industries & Commerce, Cathedral P.O., Madras 6.	The Secretary to Government, Development Department, Fort St. George, Madras-9.

-X-X-X

NOTE FILE

Development Department (J).

SUMMARY.

In connection with a L.A.Q. question relating to the ban on the grant of mineral concessions in limestone bearing areas in Dhone area (Kurnool) and in certain portions of Anantapur district, it was considered that the necessity for the continuance of the ban should be examined. The ban in question was ordered in connection with the steel industry proposed to be promoted by the Government, as lime is one of the minerals used as reflux material in the industry. The D.I & C. was therefore asked to report in consultation with the Board of Revenue and the Superintending Geologist as to the various minerals which will be required for the industry and also as to the areas from which such minerals should be obtained, so that the ban on the grant of mineral concessions to private persons in other areas in existing might be removed. The D.I & C. in consultation with the Board of Revenue and the Superintending Geologist, has submitted his report which is on p.9 n.f.

2. At the instance of the Government of India, three foreign consulting Engineering Firms surveyed the country and recommended the installation of two steel works which it was decided, to locate in Bihar and in Orissa States. The claims of the Madras State were ruled out, as it was said that this State lacked in coking coal. It has however, been proved by the Geological Survey investigations that this State possesses enough materials for an iron and steel factory. The Norwegian firm who conducted plant scale trial on the iron ore and lignite samples, of this State, have reported that it is practicable to set up an iron and steel industry in South India, utilising the iron ores of Salem and Sandur and the lignite deposits of South Arcot after suitable pre-treatment of the minerals. It is , therefore, proposed to obtain the opinion of the experts to further examine the feasibility of installing an Iron and Steel Industry in South India utilising the iron ores and lignite available in

P.T.O.

in this State.-- This is the present stage of the proposal to start an iron and steel industry in this State.

3. The opinion of the Superintending Geologist in respect of different minerals required for the industry, is as stated below:

(a) Limestone:- The lime stone deposits occuring in Dhone Taluk are too small or too silicious to be of use in iron and steel industry. There is no necessity to continue the ban in respect of these areas. On the other hand, the limestone deposits in Salem . Ramnad and Tirunelveli districts are to be considered for reservation of the industry. But before a final decision is reached bulk samples from the areas should be tested. (It is submitted that the India Cements Company are having certain leases over small areas in Tirunelveli District).

(b) Chromite:- Chromite ores are in existence in Kadirpethavaram village and the Kendapalli hills (in Krishna District). It is also in existence in Namakkal and Tiruchengode taluks, in Salem District and a conservative estimate of the total reserves in about 2,16,830 tons. The Superintending Geologist has stated as India's reserves of Chromite are limited, they should be utilised for local industrial needs and that mining leases for short periods may be sanctioned so that the deposits could be opened up and extent and richness known.

It is submitted that the B. & C. Mills are recently granted two mining leases over an extent of about 230 acres in the Kondapalli area. They are already holding some other areas on leases which were previously granted. Sri V.V.Punniah has been granted an lease for Chromite in Kadiripethavaram village only recently.

(c) Silica:- No reservation is necessary as there is no dearth of this mineral.

contd....

(d) Manganese Oxide:- The entire reserves of the manganese ores in the areas in Sandur State specified on pp.15-16 c.f. of G.O.No.2441 Development, dated 7-5-49 may be conserved. This area covers also the area held Messrs. The General Sandur Mining Coy.

(e) Magnesite:- The deposits in Sirangamur and Sirapalli in Salem District may be reserved

(f) Bauxite: Detailed prospecting necessary.

The Superintending Geologist has stated that before considering the questions of reservation of mineral bearing areas for the proposed iron and steel industry, it would be necessary to inspect the places of their occurrence to study the conditions and also to test the samples. He has therefore requested that the State Government to provide the following facilities for conducting the investigations, namely:-

(i) that the existing lessess of the area viz. B.& C. Coy. and Sri V.V.Punniah in respect of Chromite, Messrs. Parry & Co., in respect of Hastararam Clay (for deciding the silica contents) and the General Sandur Mining Coy., in respect of Manganese, may be asked to furnish their working plans,

(ii) that he might be given the assistance of two surveyors with chainmen, and also

(iii) the necessary trenching and boring equipment with the requisite personnel.

The D.I & C. has agreed with the suggestions of the Superintending Geologist.

4. With reference to item (i) above it is submitted that Sri V.V.Punniah was granted the lease only recently and may not have there any working plan. However the Board of Revenue may be asked to address the lessees to furnish the information required by the Supg. Geologist.

p.t.o.

5. Item (ii) above:- Special survey staff (surveyors and chainmen) for work connected with mining is in existence in Cuddapah and Kurnool Districts. The services of this staff can be utilised for the work in the northern districts. The Board may be consulted on this and also on the point whether these surveyors can be taken to Salem District also; and, even in case it is found necessary to appoint a Special staff for the work of investigation in Salem district, the cost will amount to a few hundred rupees only.

(Sd.)xxxx

6. Item (iii) above:- The Supg. Geologist has not specified the nature of the trenching equipment if any, that will be required. The D.I. & C. has under his control the necessary boring sets with qualified personnel, which he should be able to spare. The D.I & C. may, therefore, be consulted on this paint.

With a view to save time, the Supg. Geologist, may also be informed simultaneously that his suggestions in his letter dated 5-10-51 have the approval of this Government and that he may send a detailed programme for taking up the work in consultation with the D.I & C. as to the availability of boring sets.

Finance may see for remarks at this state.

(Sd.) J.M. LOBO PRABHU,
29-11-52.

Finance Dept. EII.

Devt's note on pp.7-10 above may be perused. No special remarks are called for in this dept. at this stage.

(Sd.) T.E.VEERARAGHAVACHARI,
8-12-52.
Deputy Secretary.

Development (J).

A.S.I

Please see remarks of Fin. above.

2. With reference to paras 4,5 and 6 on pp.9-10,above, draft memo to the Board of Rev. and the D.I.&C. and a draft letter to the Supg.Geologist are submitted for approval.

(SD.) J.M.LOBO PRABHU,
15-12-52.

H.M. (Ind) U.KRISHNA RAO,
19-12-

(Issued as Memo No.45845 J/51-4 d/ 19-12-51)

(Issued as Memo.No.45845 J/51-5 d/ 19-12-51)

(Issued as Lr.No.45845 J/51-6, d/19-12-51)

(From the Bd. of Rev. No.L.12824/51-4, d/21-1-52)

TO A.S.

With reference to memo. on p.21 c.f. the Board's reply on p.27-28 c.f. may be perused. The Board has addressed the Collectors of Krishna, Cuddapah and Bellary to furnish the particulars required by the Superintending Geologist, Madras. Further report from the Board may be awaited.

Regarding para 2 of the memo. on p.21 c.f. the Board has stated in consultation with the Senior Deputy Director of Survey and Land Records, that two Surveyors and Chainmen from the mobile staff working in Chittoor Range will be deputed to work in Cuddapah, Kurnool and Bellary districts, from the mobile staff working in Kakinada Range to work in Krishna and Nellore districts and from the mobile staff working in Coimbatore Range to work in Salem district under the Superintending Geologist during the time of his investigation in these districts. The proposal of the Board may be accepted. Subject to orders a draft memo. is subd. for approval.

Rev. and Fin. may see before issue.

(Sd.) J.M. LOBO PRABHU,
1-2-52. Ref/Fin.

Rev. Department.

TO A.S.

The notes of Devt. from p.7 ante and the draft memo. below may be perused and the file passed on to Finance.

(Sd.)
Deputy Secretary.
Fin.

Finance (E).

(Finance last saw on p.10 above)

The draft memo. below may be accepted.

(Sd.) K.E. VEERARAGHAVACHARI,
7-2-52.

P.T.O.

Devt. J.

TO A.S:

Notes of Rev. and Fin. Deptts. above may be perused. The draft memo below may now issue.

(Sd.) xxxxx,
13-2-52.

(Issued as Memo. No.45845 J/51-8, dated 14-2-52)

(From the D. I.& C. No.J/L 12824/51,dated 8-4-52)

(Issued as Memo. No.45485 J/51-10, Dated 26-4-52)

(From the D. I.&C. No.J/12824/51-11, dated 19-5-52)

Devt. J.

TO A.S.

Please see the letter from the D. I & C. on p.47 c.f. He has stated that the particulars required by the Superintending Geologist have been furnished to him and the plans are also being sent to him. The Superintending Geologist will be suggesting a detailed programme for carrying out investigations.

A report from the Supg. Geologist may be awaited till 15--6--1952.

(Sd.) V.K.R
20-5-52.

TO A.S.

Orders above.

The report of the Superintending Geologist has not yet been received. The D. I & C. may be asked to obtain and forwarded it to Govt. A draft memo. is submitted for approval.

(Sd). V. K. R
17-6-52.

(Issued as Memo.No.45845 J/51-11, dated 17-6-1952)

(From the D. I&C. No.L.12824/51-16, dated 18-8-52.)

contd.....

TO A.S.

Please see the letter from the D. I & C. on p.53 c.f.

The Superintending Geologist has reported that it is proposed to take up the investigation work during the ensuing field season commencing from November, 1952. The D. I. & C. has stated that he will send the programme of work as and when it is received from the Superintending Geologist.

In these circumstances, the case may be recorded with a C.B. entry against 1-12-52, when the D. I & C. may be enquired the stage of the matter.

(Sd.)
22-8-52. V.K.R.

G.O.Ms.No.3691, Dated 22-8-52.

Mines - Minerals - Reflux materials required for iron and steel industry - Papers recorded.

(TRUE COPY)

N.S.SATYANARAYANAN,

SUPERINTENDENT.

26—11—1953.

Read by : A.C. Seetharamaiah 2-12-53

Examined : A. Varavarathan 2/12/53